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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/717,473	11/21/2003	Ying-Fei Wei	PF220C1 .	7061		
22195	7590 09/15/2006		EXAMINER			
1101:2111	ENOME SCIENCES II	SPECTOR, LORRAINE				
	TUAL PROPERTY DEPT DY GROVE ROAD	ART UNIT	PAPER NUMBER			
ROCKVILL	E, MD 20850	1647				
			DATE MAILED: 09/15/2006	DATE MAILED: 09/15/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

-			Application No.	Applicant(s)					
		10/717,473	WEI, YING-FEI						
Office Action Summary			Examiner	Art Unit					
			Lorraine Spector, Ph.D.	1647					
Period fo	The MAILING DATE of this commun or Reply	nication app	ears on the cover sheet with the c	orrespondence add	ress				
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE N sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this come period for reply is specified above, the maximum streeto reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DA s of 37 CFR 1.13 munication. tatutory period w y will, by statute,	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this com (35 U.S.C. § 133).					
Status									
1)	Responsive to communication(s) file	ed on							
·	This action is FINAL. 2b)⊠ This action is non-final.								
3)□	,—								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)🖂	4)⊠ Claim(s) <u>1-44</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.									
6)□	6) ☐ Claim(s) is/are rejected.								
7)	7) Claim(s) is/are objected to.								
8)⊠	8) Claim(s) 1-44 are subject to restriction and/or election requirement.								
Applicati	on Papers								
9)	The specification is objected to by th	e Examiner	•.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	nder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
			•						
Attachmen	` `								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date									
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application									
Pape	Paper No(s)/Mail Date 6) Other:								

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-27, drawn to nucleic acids, host cells and recombinant production of proteins, classified in class 536, subclass 23.5 and class 435, subclass 69.1 for example.
- II. Claims 28-35, drawn to TGF α -HIII protein, classified in class 530, subclass 399.
- III. Claims 36 and 37, drawn to anti-TGF α -HIII antibodies and TGF α -HIII antagonists, classified in class 530, subclass 387.9 for example.
- IV. Claim 38, drawn to a method of treatment using TGF α -HIII classified in class 514, subclass 2.
- V. Claim 39, drawn to a method of treatment using TGF α -HIII antagonist protein, classified in class 424, subclass 145.1.
- VI. Claims 39-40, drawn to a method of treatment using nucleic acids which provide a TGF α -HIII antagonist effect, classified in class 514, subclass 44.
- VII. Claims 41-42, drawn to assays for TGFα-HIII agonists or antagonists, classified in class 436, subclass 501.
- VIII. Claim 43, drawn to diagnostic methods using nucleic acid sequencing, classified in class 435, subclass 6.
- IX. Claim 44, drawn to diagnostic methods using protein assay, classified in class 435, subclass 7.1.

The inventions are distinct, each from the other because:

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The nucleic acids (NA) of Invention I are related to the protein of Invention II by virtue of encoding same. The NA molecule has utility for the recombinant production of the protein in a host cell. Although the NA molecule and protein are related since the NA encodes the specifically claimed protein, they are distinct inventions because they are physically and functionally distinct chemical entities, and the protein product can be made by another and materially different process, such as by synthetic peptide synthesis or purification from the natural source. Further, the NA may be used for processes other than the production of the protein, such as nucleic acid hybridization assay.

The nucleic acids (NA) of Invention I are distinct from the antibodies/antagonists of Invention III, wherein they are distinct products, and neither can be used in the manufacture of the other. Further, the methods of Invention I cannot be used in the manufacture of the products of Invention III.

The nucleic acids (NA) of Invention I are distinct from the methods of inventions IV, V, VII and IX, wherein the nucleic acids cannot be used in those methods, and the methods cannot be used to make the nucleic acids or host cells. The methods of Invention I are distinct from the various methods of inventions IV, V, VII and IX, wherein the methods use different products and process steps, and attain patentably distinct results.

Inventions I and each of inventions VI, VII and VIII are related as product and processes of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the nucleic acids of invention I may be used in any of the patentably distinct processes of inventions VI, VII or VIII, or alternatively for the recombinant production of proteins, as recited in the method claims of invention I.

The proteins of Invention II are related to the antibodies of Invention III by virtue of being the cognate antigen, necessary for the production of the antibodies. Although the protein and antibody are related due to the necessary stearic complementarity of the two, they are distinct inventions because they are physically and functionally distinct chemical entities, and because the protein can be used another and materially different process from the use for production of the antibody, such as in a pharmaceutical composition in its own right, or to assay

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or purify the natural ligand of the protein (i.e. a receptor), or in assays for the identification of agonists or antagonists of the receptor protein.

The proteins of Invention II are distinct from the methods of inventions V, VI, VII and VIII, wherein the proteins cannot be used in those methods, and the methods cannot be used to make the proteins.

Inventions II and each of Inventions IV and IX are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the proteins may be used in either of the patentably distinct methods of inventions IV or IX, or alternatively for the production of the antibodies of invention III.

The antibodies of Invention III are distinct from the methods of inventions IV, VI, and VIII, wherein the antibodies cannot be used in those methods, and the methods cannot be used to make the antibodies.

Inventions III and each of inventions V and IX are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the antibodies may be used in either of the patentably distinct processes of inventions V or IX, or alternatively as a reagent for the purification of TGF α -HIII protein.

Although the antibodies of invention III may be identified using the assay of invention VII, there is nothing about that assay that serves to define the structure of the antibody, nor that would enable the manufacture of the antibody. Further, the antibodies may be obtained without use of the assay of invention VII. Therefore these two inventions are distinct, are capable of supporting separate patents, and are properly restricted.

The various methods of inventions IV-IX are considered to be patentably distinct because they use distinct products and/or different method steps, and achieve distinct effects and results. Therefore, the various methods are properly restricted.

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(h).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the

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process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Lorraine M. Spector. Dr. Spector can normally be reached Monday through Friday, 9:00 A.M. to 3:00 P.M. at telephone number 571-272-0893.

If attempts to reach the Examiner by telephone are unsuccessful, please contact the Examiner's supervisor, Ms. Brenda Brumback, at telephone number 571-272-0961.

Certain papers related to this application may be submitted to Technology Center 1600 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). NOTE: If Applicant does submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

Official papers filed by fax should be directed to 571-273-8300. Faxed draft or informal communications with the examiner should be directed to 571-273-0893.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lorraine Spector, Ph.D.

Primary Examiner